

IMC0805ER1R2J01 Datasheet



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DiGi Electronics Part Number	IMC0805ER1R2J01-DG
Manufacturer	Vishay Dale
Manufacturer Product Number	IMC0805ER1R2J01
Description	FIXED IND 1.2UH 150MA 2.60HM SMD
Detailed Description	1.2 μH Unshielded Drum Core, Wirewound Inducto r 150 mA 2.60hm Max 0805 (2012 Metric)



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Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
IMC0805ER1R2J01	Vishay Dale
Series:	Product Status:
IMC-0805-01	Active
Type:	Material - Core:
Drum Core, Wirewound	Ferrite
Inductance:	Tolerance:
1.2 µН	±5%
Current Rating (Amps):	Current - Saturation (Isat):
150 mA	
Shielding:	DC Resistance (DCR):
Unshielded	2.60hm Max
Q @ Freq:	Frequency - Self Resonant:
15 @ 7.96MHz	200MHz
Ratings:	Operating Temperature:
	-40°C ~ 105°C
Inductance Frequency - Test:	Mounting Type:
7.96 MHz	Surface Mount
Package / Case:	Supplier Device Package:
0805 (2012 Metric)	0805 (2012 Metric)
Size / Dimension:	Height - Seated (Max):
0.079" L x 0.049" W (2.00mm x 1.25mm)	0.055" (1.40mm)

Environmental & Export classification

RoHS Status:	Moisture Sensitivity Level (MSL):
ROHS3 Compliant	1 (Unlimited)
REACH Status:	ECCN:
REACH Unaffected	EAR99
HTSUS:	
8504.50.8000	



IMC-0805-01

Vishay Dale

Wirewound, Surface Mount Inductors



STA	NDARD EL	ECI	RIC	AL S	SPEC	FICA	TIONS
IND. (nH)	TOL.	TE FR (M	ST EQ. Hz) Q	Q MIN.	SRF MIN. (MHz)	DCR MAX. (Ω)	RATED DC CURRENT (mA)
2.2	0.3 nH, 0.2 nH	250	1000	50	6000	0.06	800
2.7	0.3 nH, 0.2 nH	250	1000	35	6000	0.08	800
3.3	0.3 nH, 0.2 nH	250	1000	60	6000	0.08	800
3.9	0.3 nH, 0.2 nH	250	1000	60	6000	0.06	600
4.7	0.3 nH, 0.2 nH	250	1000	60	5800	0.06	600
5.6	5%,2%	250	1000	60	5800	0.08	600
6.8	5%,2%	250	1000	60	5500	0.06	600
0.2	5%,2% 5%,2%	250	500	60	1900	0.00	600
10	5 % 2 %	250	500	60	4000	0.00	600
15	5%2%	250	500	60	3600	0.00	600
18	5%2%	250	500	60	3400	0.00	600
22	5%,2%	250	500	60	3300	0.10	600
27	5 %, 2 %	250	500	60	2600	0.12	600
33	5 %, 2 %	250	500	60	2400	0.15	500
39	5 %, 2 %	250	500	60	2100	0.18	500
47	5 %, 2 %	200	500	60	1700	0.15	500
56	5 %, 2 %	200	500	60	1600	0.25	500
68	5%,2%	200	500	60	1450	0.27	500
82	5%,2%	150	500	60	1350	0.32	500
100	5%,2%	150	500	60	1200	0.43	500
120	5 % 2 %	100	250	50	950	0.40	400
180	5%2%	100	250	50	900	0.30	400
220	5%2%	100	250	50	860	1 00	400
270	5%,2%	100	250	45	850	1.46	350
330	5 %, 2 %	100	250	45	800	1.65	300
390	5 %, 2 %	100	250	45	780	2.20	210
470	5 %	25.2	100	45	375	0.95	500
560	5 %	25.2	100	45	340	1.10	450
680	5%	25.2	100	35	188	1.20	400
820	5%	25.2	100	35	215	1.50	300
1000	5%	25.2	50	35	200	2.13	180
1200	5% 50/	7.90	7.96	15	200	2.60	150
1800	5 %	7.90	7.90	15	200	2.90	120
2200	5%	7.90	7.90	15	110	3.00	120
2700	5%	7.96	7.96	15	100	3.50	100
3300	5 %	7.96	7.96	15	70	2.30	210
3900	5 %	7.96	7.96	15	60	2.50	200
4700	5 %	7.96	7.96	15	50	2.80	180
5600	5 %	7.96	7.96	15	45	3.00	160
6800	5 %	7.96	7.96	15	45	3.20	130
8200	5 %	7.96	7.96	15	40	3.50	120
10 000	5%	2 52	2 52	10	40	5 00	80

10 nH

INDUCTANCE VALUE

FEATURES

- · High self-resonant frequency values
- High Q values at higher frequencies
- Wirewound construction
- · Compatible with vapor phase and infrared reflow soldering
- Tape and reel packaging for automatic handling, 2000/reel
- Compliant to RoHS Directive 2002/95/EC
- Halogen-free according to IEC 61249-2-21 definition

ELECTRICAL SPECIFICATIONS

Inductance Range: 2.2 nH to 10 000 nH

Inductance and Tolerance: 0.3 nH for 2.2 nH to 4.7 nH, ± 5 % for 5.6 nH to 10 000 nH

Operating Temperature: - 40 °C to + 125 °C

Core Material: Ceramic from 2.2 nH to 390 nH; Ferrite from 470 nH to 10 000 nH

TEST EQUIPMENT

- Inductance and Q measured on HP4286A (2.2 nH to 390 nH) and HP4285A (470 nH to 10 000 nH)
- SRF is measured on HP8753E
- DCR ismeasured on HP4338B



For parts within 2.2 nH to 390 nH please use e4 for JEDEC lead (Pb)-free standard. For parts within 470 nH to 10 000 nH please use e3 for (1)JEDEC lead (Pb)-free standard.

±5%



DESCRIPTION IMC-0805-01

MODEL



RoHS

COMPLIANT

HALOGEN FREE

Note

IMC-0805-01

Vishay Dale

Wirewound, Surface Mount Inductors









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